

CLAIMS

- 1    1.    An audio speaker, comprising:  
2        a speaker enclosure;  
3        at least two drivers being disposed within said enclosure;  
4        a speaker circuit, including:  
5            a first electrical lead being engaged to a first said driver;  
6            a second electrical lead being engaged to said first driver;  
7            said first electrical lead being engaged to a second said driver;  
8            said second electrical lead including an impedance circuit and being  
9        engaged to said second driver;  
10            said impedance circuit including a plurality of capacitors being  
11        engaged in parallel and an electrical switch being engaged to shunt electrical current  
12        around said plurality of capacitors.
- 1    2.    An audio speaker as described in claim 1 wherein said electrical switch is  
2        connected in parallel with said capacitors.
- 1    3.    An audio speaker as described in claim 1 wherein said first driver and said  
2        second driver are connected in parallel within said speaker circuit.
- 1    4.    An audio speaker as described in claim 2 wherein each capacitor has  
2        approximately the same capacitance.

1 5. An audio speaker as described in claim 1 wherein each said driver has a  
2 resistance, and wherein when said electrical switch is closed the total resistance of the  
3 speaker circuit is reduced.

1 6. An audio speaker as described in claim 1 wherein when said electrical switch  
2 is open electrical current flows through said capacitors.

1 7. An audio speaker as described in claim 1 wherein when said electrical switch  
2 is closed electrical current flows through said switch and not through said capacitors.

1 8. An audio speaker as described in claim 1 wherein said speaker enclosure  
2 includes two substantially identical drivers, and wherein the resistance of said speaker  
3 circuit is reduced approximately by half when said electrical switch is closed.

1 9. An audio speaker as described in claim 1 wherein said speaker circuit has a  
2 resistance of approximately 4 ohms when said electrical switch is closed and  
3 approximately 8 ohms when said electrical switch is opened.

1 10. An audio speaker as described in claim 1 wherein said speaker circuit has a  
2 resistance of approximately 8 ohms when said electrical switch is closed and  
3 approximately 16 ohms when said electrical switch is opened.

1 11. An audio speaker, comprising:  
2 a speaker enclosure;  
3 at least two audio drivers being disposed within said enclosure;

4           each said driver being engaged in a speaker circuit with two electrical signal  
5     wires, such that said drivers are electrically connected in a parallel circuit  
6     configuration within said enclosure;

7           said speaker circuit including a plurality of capacitors and an electrical switch  
8     being operable to electrically bypass said plurality of capacitors.

1     12.    An audio speaker as described in claim 11 wherein said electrical switch is  
2     connected in parallel with said capacitors.

1     13.    An audio speaker as described in claim 12 wherein said capacitors are  
2     connected in parallel within said speaker circuit.

1     14.    An audio speaker as described in claim 11 wherein each capacitor has  
2     approximately the same capacitance.

1     15.    An audio speaker as described in claim 11 wherein each said driver has a  
2     resistance, and wherein when said electrical switch is closed the total resistance of the  
3     speaker circuit is reduced.

1     16.    An audio speaker as described in claim 12 wherein when said electrical switch  
2     is open electrical current flows through said capacitors.

1     17.    An audio speaker as described in claim 12 wherein when said electrical switch  
2     is closed electrical current flows through said switch and not through said capacitors.

1 18. An audio speaker as described in claim 11 wherein said speaker enclosure  
2 includes two substantially identical drivers, and wherein the resistance of said speaker  
3 circuit is reduced approximately by half when said electrical switch is closed.

1 19. An audio speaker as described in claim 11 wherein said speaker circuit has a  
2 resistance of approximately 4 ohms when said electrical switch is closed and  
3 approximately 8 ohms when said electrical switch is opened.

1 20. An audio speaker as described in claim 11 wherein said speaker circuit has a  
2 resistance of approximately 8 ohms when said electrical switch is closed and  
3 approximately 16 ohms when said electrical switch is opened.